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**Questions to Go Along with the Unit 6 Notes, Part 3 – Anaerobic Cellular Respiration**

Ms. OK, AP Biology, 2014-2015

1. What are two ways in which aerobic fermentation differs from anaerobic fermentation?
2. Why is it impossible for the electron transport chain to take place if oxygen is not present?
3. Which of the three main steps of aerobic cellular respiration—glycolysis, the Krebs cycle, and the electron transport chain—take(s) place during anaerobic respiration?
4. Why is it important to regenerate NAD+ during anaerobic respiration? Use the terms glucose and pyruvate in your answer.
5. What are the “waste products” of alcoholic fermentation? How is NAD+ regenerated during this type of anaerobic respiration?
6. What types of organisms use alcoholic fermentation?
7. What are the “waste products” of lactic acid fermentation? How is NAD+ regenerated during this type of anaerobic respiration?
8. What types of organisms use lactic acid fermentation?
9. Why do human muscles switch to lactic acid fermentation during periods of extreme exercise?
10. How does the amount of ATP produced during anaerobic respiration compare to the amount of ATP produced during aerobic respiration?